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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,792	01/28/2004	Edwin C. Weldon	000894 USA C02/ISM/HDP/CV	7286
7:	590 11/03/2005		EXAM	INER
PATENT COUNSEL			DANG, ROBERT TRONG	
Legal Affairs D Applied Materi			ART UNIT	PAPER NUMBER
P.O. Box 450A			2838	
Santa Clara, C.	A 95052		DATE MAILED: 11/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/767,792	WELDON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Robert T. Dang	2838	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a relief will apply and will expire SIX (6) MONITUDE, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 28	3 January 2004.		
<i>;</i> —	his action is non-final.		
3) Since this application is in condition for allow			3
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D	i. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-25 is/are pending in the applicati	on.		
4a) Of the above claim(s) is/are withd	Irawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on 28 January 2004 is/a	are: a)⊠ accepted or b)□ c	bjected to by the Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr			d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of References Cited (PTO-892)	· —	Summary (PTO-413) s)/Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 01/28/2004. 		nformal Patent Application (PTO-152)	

Art Unit: 2838

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Weldon (6108189).

As to claim 1, Weldon discloses in figure 2, an electrostatic chuck (100) comprising: (a) a dielectric member (115) comprising: (i) a first layer comprising a semiconductive material; and (ii) a second layer over the first layer, the second layer comprising an insulative material; and (b) an electrode (110) in the dielectric member (see col. 23, lines 20-38).

As to claim 2, Weldon discloses an electrostatic chuck (100) wherein the first layer comprises a resistivity of from about (5.times.10.sup.9 .OMEGA.cm) to about 8.times.10.sup.10 .OMEGA.cm (see col. 21, line 65 & col. 23, lines 35-40).

As to claim 3, Weldon discloses an electrostatic chuck (100) wherein the second layer comprises a resistivity of at least about (1.times.10.sup.11 .OMEGA.cm) (see col. 23, lines 5-6).

Art Unit: 2838

As to claim 4, Weldon discloses an electrostatic chuck wherein the second layer comprises a resistivity of from about 1.times.10.sup.11 to about 1.times.10.sup.20

.OMEGA.cm (see col. 9, lines 31-34)

As to claims 5 and 14, Weldon discloses an electrostatic chuck wherein the first layer comprises Al.sub.2O.sub.3. (see col. 23, lines 20-38)

As to claims 6 and 15, Weldon discloses an electrostatic chuck wherein the first layer comprises TiO.sub.2. (see col. 23, lines 24-30)

As to claim 7, Weldon discloses an electrostatic chuck wherein the first layer comprises AIN. (see col. 21, line 23).

As to claims 8 and 16, Weldon discloses an electrostatic chuck wherein the electrode (80) is embedded in the first layer of the dielectric member (see fig. 2 & col. 23, lines 40-51).

As to claim 9, Weldon discloses an electrostatic chuck wherein the second layer comprises AlN. (see col. 9, line 25).

As to claims 10 and 17-18, Weldon discloses an electrostatic chuck wherein the second layer comprises SiO.sub.2 or ZrO.sub.2. (see col. 23, lines 24-30).

As to claim 11, Weldon discloses an electrostatic chuck wherein the second layer comprises polyimide or Teflon.RTM. (see col. 23, lines 24-30).

As to claim 12, Weldon discloses an electrostatic chuck (100) wherein the dielectric member is fabricated by sintering ceramic powders (see col. 23, lines 40-44)

As to claim 13, Weldon discloses in figure 2, an electrostatic chuck (100) comprising: (a) a dielectric member (115) comprising: (i) a first layer comprising a

Art Unit: 2838

semiconductive material; and (ii) a second layer over the first layer, the second layer comprising an insulative material (see col. 23, lines 23-25); and (b) an electrode (110) in the dielectric member (see col. 23, lines 20-38). Weldon also discloses an electrostatic chuck (100) wherein the first layer comprises a resistivity of from about (5.times.10.sup.9 .OMEGA.cm) to about 8.times.10.sup.10 .OMEGA.cm (see col. 21, line 65) and the second layer comprising a resistivity of from about 1.times.10.sup.11 to about 1.times.10.sup.20 .OMEGA.cm (see col. 23, lines 5-6)

As to claim 19, Weldon discloses in figure 1, an electrostatic chuck (100) comprising: (a) a dielectric member (115) comprising: (i) a first semiconductive layer having a resistivity that is sufficiently low to provide (i) a charging time of less than about 3 seconds, and (ii) allow accumulated electrostatic charge to substantially dissipate in less than about 1 second (see col. 20, lines 35-46); and (ii) a second insulative layer over the first semiconductive layer, the second insulative layer having a resistivity higher than the first semiconductive layer (see col. 22, lines 65-68); and (b) an electrode (110) in the dielectric member.

As to claim 20, Weldon discloses an electrostatic chuck (100) wherein the first layer comprises a resistivity of from about (5.times.10.sup.9 .OMEGA.cm) to about 8.times.10.sup.10 .OMEGA.cm (see col. 21, line 65).

As to claim 21, Weldon discloses an electrostatic chuck (100) wherein the second layer comprises a resistivity of at least about (1.times.10.sup.11 .OMEGA.cm) (see col. 23, lines 5-6).

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Art Unit: 2838

As to claim 22, Weldon discloses an electrostatic chuck wherein the first layer comprises Al.sub.2O.sub.3. (see col. 23, lines 20-38).

As to claim 23, Weldon discloses an electrostatic chuck wherein the electrode (80) is embedded in the first layer of the dielectric member (see figure 2 & col. 23, lines 40-51).

As to claims 24-25, Weldon discloses an electrostatic chuck wherein the second layer comprises SiO.sub.2 or ZrO.sub.2. (see col. 23, lines 24-30).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert T. Dang whose telephone number is 571-272-8326. The examiner can normally be reached on M-F, 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2838

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KARL D. EASTHOM
PRIMARY EXAMINER